

EXHIBIT B - CLEAN COPY OF THE CLAIMS PENDING
AS OF ENTRY OF AMENDMENT FILED OCTOBER 28, 2002



1. A glass sheet intended to be thermally toughened, comprising a silica-soda matrix, wherein said sheet has an expansion coefficient α of greater than $100 \times 10^{-7} \text{ K}^{-1}$, a Young's modulus E of greater than 60 GPa and a thermal conductivity k of less than 0.9 W/m.K.
 2. The glass sheet of claim 1, wherein said sheet has a Poisson's ratio of greater than 0.21.
 3. (Amended) The glass sheet of claim 2, wherein said sheet has a specific heat of greater than 740 J/kg.K.
 4. (Amended) The glass sheet of claim 1, wherein said sheet has a specific heat of greater than 740 J/kg.K.
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5. The glass sheet of claim 1, wherein said sheet has a density of greater than 2520 kg/m³.
 6. The glass sheet of claim 1, wherein said sheet satisfies the relationship:
$$\alpha \cdot E / K > 8000.$$
 7. The glass sheet of claim 1, wherein said matrix comprises, in percentages by weight, the following constituents:

SiO ₂	45-69%
Al ₂ O ₃	0-14%
CaO	0-22%
MgO	0-10%
Na ₂ O	6-24%
K ₂ O	0-10%
BaO	0-12%

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B ₂ O ₃	0-6%
ZnO	0-10%

and satisfies the relationships:

$$\text{Na}_2\text{O} + \text{K}_2\text{O} > 20\%$$

$$\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO} > 27\%.$$

8. The glass sheet of claim 1, wherein said matrix comprises, in percentages by weight, the following constituents:

SiO ₂	45-69%
Al ₂ O ₃	0-14%
CaO	0-22%
MgO	0-10%
Na ₂ O	6-24%
K ₂ O	0-10%
BaO	0-12%
B ₂ O ₃	0-6%
ZnO	0-10%

and satisfies the relationships:

$$\text{Na}_2\text{O} + \text{K}_2\text{O} > 17\%$$

$$\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO} > 35\%.$$

9. (Amended) The glass sheet of claim 1, wherein said matrix comprises, in percentages by weight, Na₂O and optionally K₂O in amounts which satisfy the following relationship:

$$\text{Na}_2\text{O} + \text{K}_2\text{O} > 17\%.$$

10. The glass sheet of claim 1, wherein said matrix comprises, in percentages by weight, the following constituents:

SiO ₂	45-69%
Al ₂ O ₃	0-14%
CaO	0-22%
MgO	0-10%

Na ₂ O	6-24%
K ₂ O	0-10%
BaO	0-12%
B ₂ O ₃	0-6%
ZnO	0-10%

and satisfies the relationships:

(a) $\text{Na}_2\text{O} + \text{K}_2\text{O} > 17\%$, and

(b) $\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO} > 29\%$ when at least one of $\text{Na}_2\text{O} > 18\%$, $\text{K}_2\text{O} > 5\%$, and $\text{Al}_2\text{O}_3 < 3\%$.

11. The glass sheet of claim 9, wherein said matrix comprises, in percentages by weight, at least one of TiO_2 and Al_2O_3 in amounts which satisfy the relationship:

$$\text{TiO}_2 + \text{Al}_2\text{O}_3 < 3\%.$$

12. The glass sheet of claim 1, wherein said matrix comprises, in percentages by weight, at least one of Na_2O , K_2O , CaO , and Al_2O_3 in amounts which satisfy the following relationships:

(a) $\text{Na}_2\text{O} + \text{K}_2\text{O} > 17\%$, and

(b) $\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO} > 29\%$ when at least one of $\text{Na}_2\text{O} > 18\%$, $\text{K}_2\text{O} > 5\%$, and $\text{Al}_2\text{O}_3 < 3\%$.

13. The glass sheet according to claim 1, wherein said sheet has a thickness of less than 2.5 mm and is thermally toughened.

14. The glass sheet of claim 1, wherein said matrix comprises Na_2O and optionally one or more of K_2O , CaO or Al_2O_3 in amounts which satisfy the following relationship:

$$\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO} > 29 \text{ wt}\%$$

when at least one of $\text{Na}_2\text{O} > 18 \text{ wt}\%$, $\text{K}_2\text{O} > 5 \text{ wt}\%$, and $\text{Al}_2\text{O}_3 < 3 \text{ wt}\%$.

15. The glass sheet of claim 1, wherein said matrix has a CaO content of 10.4 to 22 wt%.